03 1988

SMUG BYTES

PRICE
.75

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*                                   *
*          SMUG BYTES               *
*       Volume 5, Number 2          *
*        FEBRUARY  1988             *
*                                   *
*   Subscriptions= $10.00/year      *
*   or free with swap.   Send to:   *
*                                   *
* SINCLAIR MILWAUKEE USERS GROUP    *
* P.O. Box 101   Butler, WI 53007   *
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* THIS MONTH:                       *
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*   If any articles are copied      *
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* --------------------------------  *
* NEXT MEETING DATE:   3/09/88      *
* --------------------------------  *
*                                   *
* Send all contributions by the     *
* first day of the month to:        *
*                                   *
*   Bill Heberlein                  *
*   Editor                          *
*   SMUG BYTES                      *
*   5052 N. 91st Street.            *
*   Milwaukee, WI 53225             *
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  Meeting date 3rd Wed. of the month.
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  Meeting date 4th Wed. of the month.
QL   - R. Hilsmann
    - 251 5291
  Meeting date see Spectrum group

Bill on MSCRIPT

First I want to mention the club just received a new catalog from Jack Dohany. In it he lists V6.0 of MSCRIPT. It will be ready in 1988 and have many extras. Watch for it

A couple of hints for the version 5 of Dohany's MSCRIPT

If you want a catalog of what's on the AERCO disk a "J" will give a normal AERCO catalog so you won't have to scroll. Use this with the ERASE feature and see how easy it is. Of course it also works well with all the others, LOAD, ADD, and SAVE.

The next is the PAPER option in the main menu. The paper will change but the ink will be a contrasting one when you go to the text area. There seems to be a small problem here but I like it better than the black/white screen.

Tune in next month. Later this month I am going to try to print two columns from MSCRIPT and will let you know what happens.

"SQ" NOTES
BY R.A.HILSMANN

I mentioned in last month column that I would hope to have VU-Calc +80 all polished up for this month, but no such luck, I could not even find the time to look at it, and rather than publishing something not up to par, I decided to wait.

I modified VU-CALC some years ago, but it has to be fool-proof, not to say that others are fools, it's just that the program has most likely some peculiar looking chr$ in its display. I know what they mean, but somebody else may have problems with them, so let me clean it up for a future date.

For this month something on the lighter side, Biorhythms for all who believe in it, and for some who dont, but think it's fun (or funny) anyways. I wrote it originally for the ZX81, modified it for the Timex Sinclair later. Just type it in and run it, follow the prompts as you go.

Naturally make sure you type it in without mistakes, to check for those, the Timex command "Free" should give you the number 34997. The Sinclair command "Print 65536-USR 7962" should display the number 37818. This program will figure the dates correctly to the year 2083, good for your lifetime I'm sure. Printouts probably look better to the 2040 printer, cheaper besides. I have not made any provisions to print to a centronic type printer, maybe someone else would like to tackle that project.

Have some of the functions or features of the Timex or Sinclair Rom given you a fit, things like the scroll after a List, or the fact that when you ask for INT (-65536) it will display the number -1, or the problem with divisions, where the 34th bit of a division is lost.

Aside from the corrections John Oliger recommends, I have made all the corrections needed to make the Roms free of bugs, and added a few features to the Roms. For both Roms I changed the keys that activate the scroll, now one will have to press the ENTER key to activate it, all other keys will break into the program, this of course only works when the "scroll?" message comes up on the bottom of the screen. This is something that realy bothered me especially after listing a program. I also have problems finding the cursor key at times moving from line to line, I would like to make it more visible, using perhaps the "*" chr$ or chr$ 8F perhaps.

Changes to the Spectrum Rom will be as above, but in addition will have the following commands added:
1) Print Free. Using the same keystrokes as on the Timex.
2) Delete nn,nn. Using the command; Erase nn,nn.
3) Renumber nn,nn,nn. Using probably the Sound key which will display an "R" instead of the bracket normally displayed, losing this bracket should not be a great loss I hope (This is not final).
4) The following features are only a thought at this time, since I have only 1170 bytes to do this all in. Auto-Numbering? Error-trapping? Open & Close a Disk read and write channel another feature, but! Someone sugested Sound, but my feeling to that is; to play music I would buy a synthesizer.

Ed Haasch wrote a version some time ago that had a routine in the Rom which would change all numbers to VAL"" in a program, this made Spectrum Programs fit into Timex space much better, now there is a thought. Too bad the Timex Rom has only about 29 bytes available, would be nice to change the delete function to Erase also, since it certainly does interfere when deleting characters in a basic line.

On page 5 you will see a typical printout from the Biorhytm program. As you can see it adjusts automatically to leap years.

```
 10 REM RHYTHMS ©1982/1984
    R.A.HILSMANN
 20 POKE 23658,8: LET G=0: LET
Z=0: PAPER 1: INK 9: BORDER 1
 30 CLS : PRINT AT 0,7;"P=Physi
cal Cycle"'TAB 7;"E=Emotional Cy
cle"'TAB 7;"I=Intelectual Cycle"
''
 40 PRINT "Left side = Recupera
tive Times"'"Right side = Extra
Energy Times"'"Crossing center =
 Critical Days"
 50 INVERSE 1: PRINT AT 8,0;"
        YOUR BIORHYTHMS        ";
 INVERSE 0
 60 PRINT AT 12,0;"ENTER YOUR B
IRTHDATE"'"ENTER NUMBERS ONLY"'
"6/18/47"
 70 GO TO 100
 80 LET Z=0: PRINT AT 12,0;"ENT
ER TODAYS DATE",
 90 RETURN
100 DIM N(2): LET P2=2*PI: LET
W=10: LET K=11: LET L=21
110 FOR T=1 TO 2
120 IF T=2 THEN GO SUB 80
130 INPUT FLASH 1;"ENTER MONTH"
; FLASH 0,M
140 PRINT AT 12,22;M
150 INPUT FLASH 1;"ENTER DAY";
FLASH 0,D
160 PRINT AT 12,24;"/";D;"/"
170 INPUT FLASH 1;"ENTER YEAR";
FLASH 0,Y
180 PRINT AT 12,28;Y
190 LET N(T)=INT (365.25*(Y-(M<
3)))+INT (30.6001*(M+1+12*(M<3))
)+D
200 PAUSE 100: NEXT T
210 IF NOT Z THEN CLS : PRINT A
T 10,0;"FOR PRINTOUT PRESS ""p""
"'"TO HOLD LISTING PRESS ANY KE
Y": PAUSE 0: CLS : IF INKEY$="P"
 OR INKEY$="p" THEN LET Z=1: PRI
NT AT 12,0;"ENTER NAME": INPUT N
$: GO SUB 740: CLS
220 LET B=N(2)-N(1)
230 PRINT AT 20,0;"  "
240 DIM K$(9)
250 DIM J$(12,4)
260 FOR S=1 TO 365
270 IF NOT INKEY$="" THEN GO TO
270
280 RESTORE 830: FOR J=1 TO 12
290 READ J$(J,1 TO 4): IF J=M T
HEN LET K$(1 TO 4)=J$(M,1 TO 4)
300 NEXT J
310 IF D<10 THEN LET K$(5 TO 7)
=" "+STR$ D+"/"
320 IF D>9 THEN LET K$(5 TO 7)=
STR$ D+"/"
330 LET K$(8 TO )=STR$ Y: POKE
23692,255
340 PRINT K$(1 TO 9);AT L,(W+K)
;":";AT L,(SIN (P2*B/23)*W+W+K);
"P";AT L,(SIN (P2*B/28)*W+W+K);"
E";AT L,(SIN (P2*B/33)*W+W+K);"I
"
350 IF Z THEN LPRINT AT L,0;K$(
 TO 9);AT L,(W+K);":";AT L,(SIN
(P2*B/23)*W+W+K);"P";AT L,(SIN (
P2*B/28)*W+W+K);"E";AT L,(SIN (P
2*B/33)*W+W+K);"I"
360 LET B=B+1: LET D=D+1: LET X
=D
370 GO SUB 390
```

```
380 NEXT S: GO TO 260
390 IF M=1 THEN GO TO 520
400 IF M=2 THEN GO TO 610
410 IF M=3 THEN GO TO 530
420 IF M=4 THEN GO TO 690
430 IF M=5 THEN GO TO 540
440 IF M=6 THEN GO TO 700
450 IF M=7 THEN GO TO 550
460 IF M=8 THEN GO TO 560
470 IF M=9 THEN GO TO 710
480 IF M=10 THEN GO TO 570
490 IF M=11 THEN GO TO 720
500 IF M=12 THEN GO TO 580
510 IF M=1 AND D=32 AND Y=100 T
HEN LET M=1 AND D=1 AND Y=01
520 IF X=32 THEN LET D=1: LET M
=2: RETURN
530 IF X=32 THEN LET D=1: LET M
=4: RETURN
540 IF X=32 THEN LET D=1: LET M
=6: RETURN
550 IF X=32 THEN LET D=1: LET M
=8: RETURN
560 IF X=32 THEN LET D=1: LET M
=9: RETURN
570 IF X=32 THEN LET D=1: LET M
=11: RETURN
580 IF X=32 THEN LET D=1: LET M
=1: LET Y=Y+1
590 IF Y=100 THEN LET Y=01
600 RETURN
610 LET G=0: IF D<29 THEN GO TO
660
620 RESTORE 650: FOR C=1 TO 25
630 READ A: IF Y=A THEN LET G=1
640 NEXT C
650 DATA 84,88,92,96,00,04,08,1
2,16,20,24,28,32,36,40,44,48,52,
56,60,64,68,72,76,80
660 IF G=0 AND X=29 THEN LET D=
1: LET M=3
670 IF G=1 AND X=30 THEN LET D=
1: LET M=3
680 RETURN
690 IF X=31 THEN LET D=1: LET M
=5: RETURN
700 IF X=31 THEN LET D=1: LET M
=7: RETURN
710 IF X=31 THEN LET D=1: LET M
=10: RETURN
720 IF X=31 THEN LET D=1: LET M
=12
730 RETURN
740 LPRINT "BIORHYTHMS FOR ";N$
''''
750 LPRINT TAB 7;"P=Physical Cy
cle"
760 LPRINT TAB 7;"E=Emotional C
ycle"
770 LPRINT TAB 7;"I=Intellectua
l Cycle"
780 LPRINT '"Left side = Recupe
rative Times"
790 LPRINT '"Right side = Extra
Energy Times"
800 LPRINT "Crossing center = C
ritical Days"'''
810 INVERSE 1: LPRINT AT 8,0;"
        YOUR BIORHYTHMS        "
: INVERSE 0
820 LET Z=1: RETURN
830 DATA "JAN.","FEB.","MAR.","
APR.","MAY.","JUN.","JUL.","AUG.
","SEP.","OCT.","NOV.","DEC."
```

BIORHYTHMS FOR JOHN SMITH

```
         P=Physical Cycle
         E=Emotional Cycle
         I=Intellectual Cycle

Left side = Recuperative Times
Right side = Extra Energy Times
Crossing center = Critical Days
```

```
■■■■■■■■■■■YOUR BIORHYTHMS■■■■■■■■■■■
FEB. 1/88              E  IP:
FEB. 2/88            E  P    I
FEB. 3/88          E  P        I
FEB. 4/88         EP           .  I
FEB. 5/88         EP              I I
FEB. 6/88         E                I  I
FEB. 7/88         E                 I  I
FEB. 8/88          E                  I
FEB. 9/88           EP                  I
FEB.10/88            EP                   I
FEB.11/88              EP                 I
FEB.12/88               E  P              I
FEB.13/88                 E    P          I
FEB.14/88                  :  E   P  I
FEB.15/88                     E  IP
FEB.16/88                      IE   P
FEB.17/88                   I      E   P
FEB.18/88                 :I          EP
FEB.19/88             I :               PE
FEB.20/88          I                  P  E
FEB.21/88       I     I              P      E
FEB.22/88      I   I              P         E
FEB.23/88     I   I         :P          E
FEB.24/88     I            P:        E
FEB.25/88     I        P         E
FEB.26/88     I   P        :    E
FEB.27/88     I  P           E
FEB.28/88     IP         E
FEB.29/88     PI      E
MAR. 1/88     P  I E
MAR. 2/88      PEI
MAR. 3/88       E  P  I    :
MAR. 4/88     E      PI
MAR. 5/88     E        PI
MAR. 6/88     E           I
MAR. 7/88      E        :  IP
MAR. 8/88       E             IP  P
MAR. 9/88        E      :       I P  P
MAR.10/88          E             I P  P
MAR.11/88           E      :       I  P
MAR.12/88              E            IP
MAR.13/88                :  E         PI
MAR.14/88                   E    P    II
MAR.15/88                     E  P    II
MAR.16/88                       P  EI  I
MAR.17/88                 :P      EI
MAR.18/88              P :          I E
MAR.19/88           P                I  E
MAR.20/88        P                  I    E
MAR.21/88      P                  I       E
MAR.22/88      P          :I           E
MAR.23/88     P          I :       E
MAR.24/88     P        I      E
MAR.25/88     P     I     :  E
MAR.26/88      PI         :  E
MAR.27/88     I  P  E     :
MAR.28/88     I   EP  E
MAR.29/88     I  E       P
MAR.30/88     I E    , ,   :    P
MAR.31/88     IE           :      P
APR. 1/88     I            :         P
APR. 2/88     EI           :           P
```

Some additions and changes to the Menu-program published in the Dec. issue of Smug-bytes.

Line 30, change "LET Q$=INKEY$: IF Q$=CHR$ 13 THEN GO TO 150" to "LET Q=CODE INKEY$: IF Q=13 THEN GO TO 150".

Add line 35; "IF Q=49 THEN LET A=A+19: LET K=K+380: GO SUB 160: GO SUB 45: GO TO 135"

Line 40, delete ": PRINT AT 3,0 ;C$: IF A>F THEN RANDOMIZE USR E: GO TO 60"

Add line 45; "PRINT AT 3,0;C$: IF A>F THEN RANDOMIZE USR E: GO TO 60"

Line 50, no change.

Line 60, change "LET J=0" to "LET J=1

Line 70, change the number "18" to "19" in statement; "IF F-I>18 THEN LET J=J+18".

Line 80 to 120, no changes.

Line 130, should now read; "NEXT : GO SUB 160: GO SUB 30".

Add line 135; "IF A-1<=F THEN LET I=A".

Line 140, no change.

Line 150, delete ":STOP" at the end of the line.

Lines 151 to 156, excluding line 155, delete the ":RETURN" and add to lines 152, 153, 154 & 156; ":STOP".

Add line 160; POKE 32768,K-256* INT (K/256): POKE 32769,INT (K/256) : RETURN

Why make those changes? These changes will add paging to the menu, which means, if you are on top of a page, and do not find the program your looking for, listed, press "1", and your on top of the next page. This eliminates scrolling through the page to get to the next one. If you dont like to use key "1" for this function, change the "49" in line 35; "IF Q=49" to any decimal key-code you desire.

Why did I do this? According to rules: "A program is finished when all available memory is used up." Well this took care of it.

Q NOTES

To justify the "Q" in "SQ", a few lines on the QL are in order.

My QL unfortunately has found its place next to the expanded and keyborded ZX81 in the storage room in the basement, It's funny or not so funny, that all the computers I had bought after, and some before the 2068 have gone the same route. The only computer I have here in the Ham Shack are the 2068 and a Heath H89 (CPM and all) which I have dedicated to Ham Radio. Who needs all this cumbersome garbage? Am I the one that's different, or is it that the rest of the computer world has never been exposed to the 2068? Maybe operating systems on other computers are purposely written that way, to justify the merit of having computer knowledge.

One thing is sure, who ever wrote the system for the QL surely has never seen a Spectrum before. Or if he did, he purposely made the QL operating system complex to appeal to the learned computer world. What a chance has been missed, look what power a 16K rom and ease of operation the Spectrum has given you, not to speack of additions made by Timex. Just think what the original writters of the Timex or Sinclair operating system could have done to ease operation, if they would have had a 68000 processor and 32K available for the rom.

I dont question the power of the QL, just the way it's manipulated. Well I had to get this thought out in the open, enough.

A word of caution to all QL users! I give this warning because of my own experience. I am into electronics since an early age, and get called upon at times to fix electronic gismos including computers, I like to tinker with electronics.

To make it short, I was repairing a QL, exchanging chips to see if the problem was there, of course you have to disconnect the power when you do so, well the QL has no on and off switch, so one has to plug or unplug a cord from the power supply with a plug on its end. The plug has two rounded corners to make it impossible to plug it in the wrong way. Well you can not, but if you try and hold the plug at a certain angle you will make contact, of course the 12V side is now touching the 5V input, and guess which chips will go up into computer heaven, you guessed it, the special chips, which you cant buy at the corner electronic dealer.

So watch it, either have the power supply pluged into a power strip with an on and off switch there, or install an inline switch to the power cord.

Have fun again, I will call it quits for this issue of this news-letter......till next month
                    yours truly....#3

"Harry, could you come here for a moment . . ."

Dave Flemming's Corner

Well January has come again and it was time for my once a year mailing to Timex/Sinclair supporting companies. I do this every year just to see which ones are still alive. Here is the listing of companies that I received replies from as of 1/26/88.

- A&J Assembly - Aerco
- Budget Robotics & Computing
- Byte Power - Byte-Back
- Chia-Chi Chao - Curry Computer
- E. Arthur Brown - Foote Software
- Grey & Clifford Computer Products
- Knighted Computers
- Larken Electronics
- Lemke Software Development
- NovelSoft - RMG Enterprises
- Russell Electronics - SiriusWare
- Sunset Electronics
- John Oliger Co. - Variety Sales
- WMJ Data Systems - Zebra Systems

Companies not responding are as follows:

- A.F.R. Software
- Beaver Computer Products - Sharps
- Silicon Mountain Computers
- The T/S Connection
- Thomas B. Woods
- Weymil Corporation

(Editors note Silicon Mountain, Sharps and Weymil Corp. are still advertising in Time Designs)

I will keep you up to date on any late arriving catalogs. Also I have photocopied many of these catalogs. They are free for the taking, so please help yourselves.

Local Timex/Sinclair BBS by David
Flemming.

Yes, it is time again to try to
start a local BBS for our
computers. Last year two attempts
were made. The first was by Dave
Franson and the second by yours
truly. Both attempts met with
failure. However, I am going to giv
it another try. So all of you
members with modems, please call
this system.

The system name will be "The
Refuge". The BBS will be run on a
TS2068 (of course) using the
Casboard software. It will be a
very basic system to start with.
Only one board will be available
and there will be no up/down
loading at first. If enough members
from the club use this system I
will add more message bases and
will allow access to the up/down
loading section of the program. So
if you wan this to become a
success, then give it a call.
Here's the systems info:
Phone (414) 796-0414
Hours 9pm Fridays to
        9pm Sundays.
300 Baud, 8-0-1
"The Refuge" will become on-line as
of February 19th.

I'll look forward to hearing from
the club members and even to any
other T/S users out there. And
remember, only you can make this
work. Bye.

FROM THE PRES

We hope this will be a good year
for you and the Sinclair community
With the Computerfest early this
year, March 4th thru the 6th, the
summer ham and computer fests
should be easy to attend. See you
at the Spring computerfest.

Ham and Computer fests comming up
Saturday March 5, MSOE, 1121 N.
Milwaukee St. Milwaukee, 8am –
2pm.
Sunday April 10, the Dane County
Expo Center, Madison 8am – ?.
Sat. May 7, Circle B Recreation
Center, Cedarburg Hy 60 & County I
Saturday May 14, Manitowoc county
Expo, Manitowoc 8am – ?